



The Solutions Network

Rochester, New York

Welcome to SOLAR ENERGY: A SUNNY FUTURE



The Solutions Network

Rochester, New York

Solar Technology Implementation

Troy Strand
Independent Energy Solutions
San Marcos, CA



What Is It?

❖ Solar Technologies

- Here and Now
- "Tomorrow"
- "Next Year"

August 8-11, 2004

www.energy2004.ee.doe.gov



What Is It?

❖ Solar Technologies – Here and Now

- Photovoltaics (PV)
- Solar Thermal
- Solar Vent/Transpired Collectors
- Daylighting

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Photovoltaics (PV)

❖ Photovoltaics (PV)

- Produces electricity from sunlight
- Several technologies
 - Crystalline & polycrystalline silicon
 - Amorphous
 - Silicon
 - CdTe, GaAs, multi-junction



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Solar Thermal

❖ Solar Thermal

- Produces heat from sunlight
- Hot Water
 - Domestic
 - Central systems and Individual systems
 - Swimming Pool Heating



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Solar Vent/Transpired Collectors

- ❖ Solar Vent/Transpired Collectors
 - Produces heating & cooling from sunlight
 - Space conditioning/Air preheat



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Daylighting

- ❖ Daylighting
 - Produces light from sunlight
 - Large area lighting



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Summary

- ❖ The sun has been around a long time
- ❖ Solar technologies are available now
- ❖ Power, heat, and light

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